#5086 Store at -200

Met (L41G3) Mouse mAb (Biotinylated)



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Applications: WB	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 145	Source/Isotype: Mouse IgG1	UniProt ID: #P08581	Entrez-Gene Id: 4233	
Product Usage Information	Ар	Application			Dilution		
	We	stern Blotting			1:1000		
Storage	•	Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20° C. Do not aliquot the antibodies.					
Specificity / Sens		Met (L41G3) Mouse mAb (Biotinylated) detects endogenous levels of total Met protein. It does not cross-react with related proteins.					
Source / Purificat		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of human Met.					
Product Descript	antil	This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Met (L41G3) Mouse mAb #3148.					

MW (kDa) 145

Background

Met, a high affinity tyrosine kinase receptor for hepatocyte growth factor (HGF, also known as scatter factor) is a disulfide-linked heterodimer made of 45 kDa α - and 145 kDa β -subunits (1,2). The α -subunit and the amino-terminal region of the β -subunit form the extracellular domain. The remainder of the β -chain spans the plasma membrane and contains a cytoplasmic region with tyrosine kinase activity. Interaction of Met with HGF results in autophosphorylation at multiple tyrosines, which recruit several downstream signaling components, including Gab1, c-Cbl, and Pl3 kinase (3). These fundamental events are important for all of the biological functions involving Met kinase activity. The addition of a phosphate at cytoplasmic Tyr1003 is essential for Met protein ubiquitination and degradation (4). Phosphorylation at Tyr1234/1235 in the Met kinase domain is critical for kinase activation. Phosphorylation at Tyr1349 in the Met cytoplasmic domain provides a direct binding site for Gab1 (5). Research studies have shown that altered Met levels and/or tyrosine kinase activities are found in several types of tumors, including renal, colon, and breast. Thus, investigators have concluded that Met is an attractive potential cancer therapeutic and diagnostic target (6,7).

Background References

- 1. Cooper, C.S. et al. (1984) Nature 311, 29-33.
- 2. Bottaro, D.P. et al. (1991) Science 251, 802-4.
- 3. Bardelli, A. et al. (1997) Oncogene 15, 3103-11.
- 4. Taher, T.E. et al. (2002) J Immunol 169, 3793-800.
- 5. Schaeper, U. et al. (2000) *J Cell Biol* 149, 1419-32.
- 6. Eder, J.P. et al. (2009) Clin Cancer Res 15, 2207-14.
- 7. Sattler, M. and Salgia, R. (2009) Update Cancer Ther 3, 109-118.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

Cross-Reactivity Key

WB: Western Blotting

Met (L41G3) Mouse mAb (Biotinylated) (#5086) Datasheet Without Images Cell Signaling Technology

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected

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